

TOS 24-230VUC 24VDC5A**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

Similar to illustration

- 1 NO contact (MOS-FET)
- 12.8 mm wide
- 5 A DC output current
- Unique multi-voltage input from 24 to 230 V UC

General ordering data

Version	TERMSERIES, Solid-state relay, Rated control voltage: 24...230 V UC $\pm 10\%$, Rated switching voltage: 3...33 V DC, Continuous current: 5 A, Screw connection
Order No.	1990970000
Type	TOS 24-230VUC 24VDC5A
GTIN (EAN)	4050118379297
Qty.	10 pc(s).

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Technical data

Dimensions and weights

Depth	87.8 mm	Depth (inches)	3.457 inch
Height	89.6 mm	Height (inches)	3.528 inch
Width	12.8 mm	Width (inches)	0.504 inch
Net weight	60 g		

Temperatures

Storage temperature	-40 °C...70 °C	Operating temperature	-20 °C...40 °C
Humidity	5-95% relative humidity, T _u = 40°C, without condensation		

Probability of failure

MTTF	773 Jahre
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Rated data UL

Ambient temperature (operational), max. 40 °C	Connection cross-section AWG, min.	AWG 26
Connection cross-section AWG, max.	Type of conductor	rigid copper conductor, flexible copper conductor
	Pollution severity level	2
Tightening torque, max.		

Control side

Rated control voltage	Nominal control current	22.4 mA DC @ 24 V DC, 22.6 mA AC @ 24 V AC, 2.4 mA DC @ 230 V DC, 4.6 mA AC @ 230 V AC
Power rating	Status indicator	Green LED
	Input frequency	3 Hz
Protective circuit	Coil voltage of the replacement relay	24 V DC
Coil voltage of the replacement relay deviating from the rated control voltage		

Load side

Rated switching voltage	Continuous current	5 A
Rated switching current	Inrush current	15 A / 10 ms
Switch-on delay	Switch-off delay	<100 ms
Voltage drop at max. load	Leakage current	<10 µA
Min. switching current	Short-circuit-proof	No
Protective circuit, load side	Contact type	1 NO contact (MOS-FET)
max. switching frequency (AC control voltage)	max. switching frequency (DC control voltage)	3 Hz

General data

Rail	TS 35
Test button available	No
Colour	black

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UL94 flammability rating component	Component	Housing
	UL94 flammability rating	V-0
	Component	Retaining clip
	UL94 flammability rating	V-0

Insulation coordination

Rated voltage	300 V	Pollution severity	2
Surge voltage category	III	Clearance and creepage distances for control side - load side	≥ 5.5 mm
Dielectric strength for control side - load side	2.5 kV _{eff}	Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Impulse withstand voltage	6 kV (1.2/50 µs)	Protection degree	IP20

Further details of approvals / standards

Certificate No. (DNV)	TAA00001E5	Certificate no. (cULus)	E141197
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Connection data

Wire connection method	Screw connection	Stripping length, rated connection	8 mm
Tightening torque, max.	0.4 Nm	Clamping range, rated connection	1.5 mm ²
Clamping range, min.	0.14 mm ²	Clamping range, max.	2.5 mm ²
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 14
Wire cross-section, solid, min.	0.14 mm ²	Wire cross-section, solid, max.	2.5 mm ²
Wire cross-section, solid, min. (AWG)	AWG 26	Wire cross-section, solid, max. (AWG)	AWG 14
Wire connection cross section, finely stranded, min.	0.14 mm ²	Wire connection cross section, finely stranded, max.	2.5 mm ²
Wire cross-section, finely stranded, min. (AWG)	AWG 26	Wire cross-section, finely stranded, max. (AWG)	AWG 14
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.25 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.25 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	2.5 mm ²
Wire connection cross section, finely stranded, two clampable wires, min.	0.5 mm ²	Wire cross-section, finely stranded, two clampable wires, max.	1 mm ²
Twin wire-end ferrules, min.	0.5 mm ²	Twin wire-end ferrules, max.	1 mm ²
Blade size	size PHO		

Classifications

ETIM 6.0	EC001504	ETIM 7.0	EC001504
ETIM 8.0	EC001504	ETIM 9.0	EC001504
ECLASS 9.0	27-37-16-04	ECLASS 9.1	27-37-16-04
ECLASS 10.0	27-37-16-04	ECLASS 11.0	27-37-16-04
ECLASS 12.0	27-37-16-04	ECLASS 13.0	27-37-16-04

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	9e2cbc49-76d9-4611-b8ec-5b4f549a0aa9

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www.weidmueller.com**Technical data****Approvals**

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197

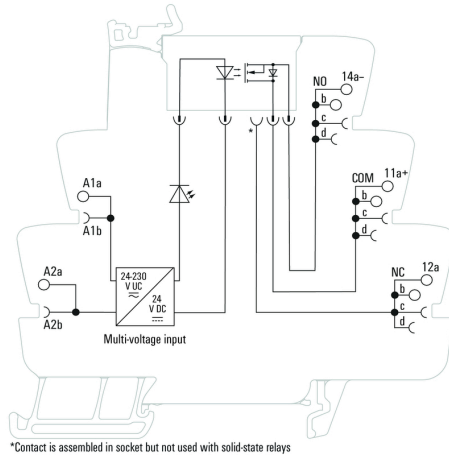
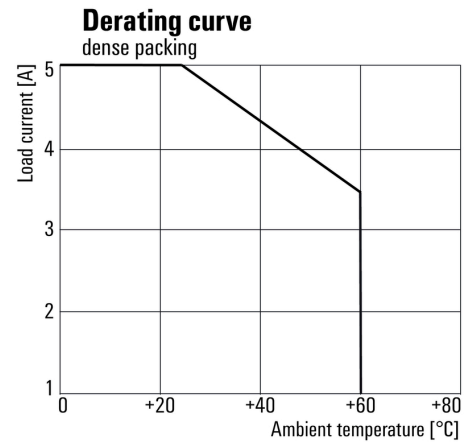
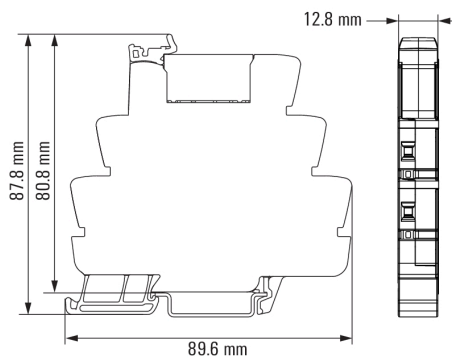
Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	CAD data – STEP
User Documentation	Beipackzettel / Package Insert – multilingual
Catalogues	Catalogues in PDF-format
Brochures	

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Drawings
Wiring diagram

Derating curve

Dimensional drawing


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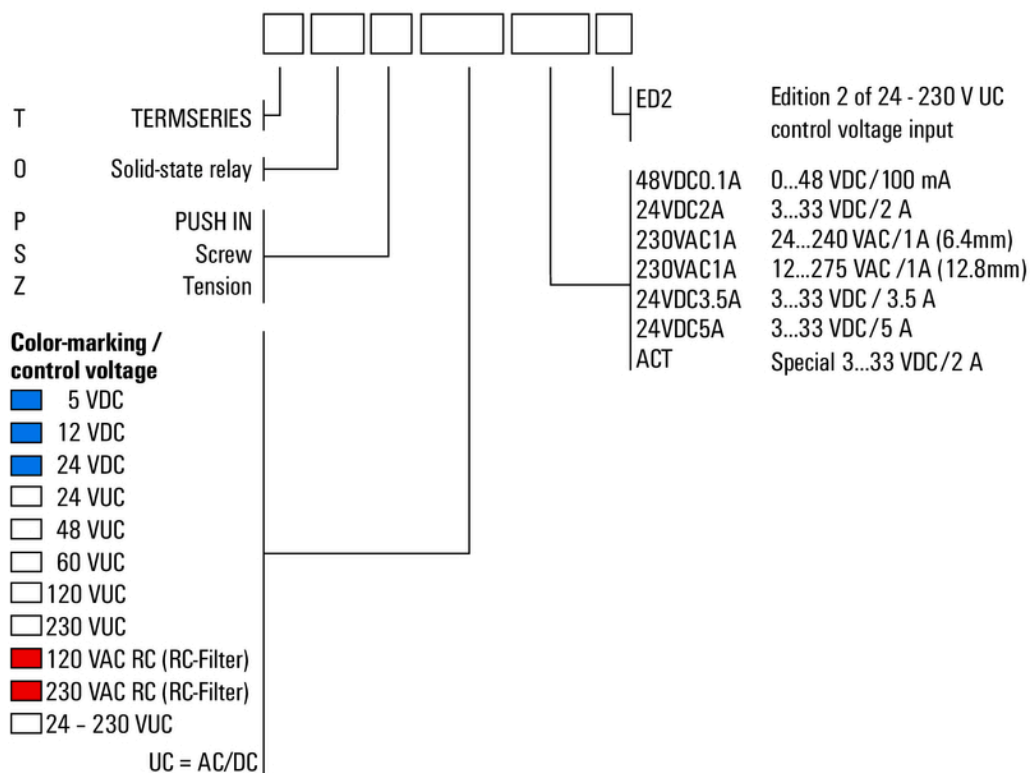
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Drawings

Miscellaneous

Type code TERMSERIES solid-state relay versions



Type codes